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Physics and Astrophysics of Neutron Stars and Black Holes

Proceedings of the International School of Physics "Enrico Fermi", Course LXV

edited by **R. GIACCONI,** *Center for Astrophysics, Harvard College Observatory, U.S.A., and* **R. RUFFINI,** *University of Rome, Italy.*

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On the grounds of relativistic statistical mechanics, quantum processes and the special and general theories of relativity, it had been predicted in the early 1930's that only three different equilibrium configurations should be expected to exist for stars at the endpoint of their thermonuclear evolution: white dwarfs, neutron stars and black holes. While the existence of white dwarfs was immediately confirmed by much experimental evidence, it was not until 1968 that the discovery of pulsars gave clear evidence for the existence of neutron stars in our galaxy. In 1971, the development of orbiting x-ray telescopes and the discovery of binary x-ray sources opened a new trend in the physics and astrophysics of neutron stars and black holes. For the first time it was possible to collect data on the masses of neutron stars, information on the processes occurring deep in their magnetospheres and the first candidate for a black hole in our galaxy was identified.

The main scope of this LXV "Enrico Fermi" Summer School was to review the progress made in recent years in the understanding of neutron stars and black holes. Emphasis was given to review (a) the experimental results, (b) the theoretical analysis of the structure of neutron stars and black holes, and (c) the phenomenological analysis of the astrophysics of binary x-ray sources. Riccardo Giacconi, professor at Harvard University, has conceived and lead the construction and data analysis of the first x-ray orbiting telescope, and the observations have been collected in the classical "Uhuru" catalogue of x-ray sources. Remo Ruffini, professor at Rome University, has extensively worked in topics of relativistic astrophysics and was the first to give reasons, in 1971, for the identification of Cygnus X1 with a black hole.

This work will be of interest not only to those astronomers, astrophysicists and relativists actively involved in this research, but also to anyone interested in understanding fundamental physical processes in the universe.

Contributors: *W. D. Arnett, Y. Avni, J. N. Bahcall, B. M. Barker, G. Börner, S. P. Boughn, P. E. Boynton, A. C. Brinkman, V. Canuto, S. Chandrasekhar, G. W. Clark, S. A. Colgate, T. Damour, A. J. F. Den Boggende, W. M. Fairbank, M. Fujimoto, R. Giacconi, R. P. Giffard, E. H. B. M. Gronenschild, J. Heise, R. M. Hjellming, J. B. Hutchings, W. Kundt, A. P. Lightman, M. S. McAshan, R. Mewe, F. Meyer, J. Middleditch, T. Murai, J. Nelson, E. T. Newman, R. F. O'Connell, H. Okamura, H. J. Paik, R. Penrose, L. Pietronero, T. Piran, K. A. Pounds, M. J. Rees, R. Ruffini, H. Sato, H. U. Schmidt, J. Schrijver, J. Shaham, S. L. Shapiro, I. B. Strong, R. A. Sunyaev, R. C. Taber, H. Tananbaum, H.-C. Thomas, S. Tsuruta, R. P. J. Van Den Heuvel, J. R. Wilson.*

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Weak Interactions

Proceedings of the International School of Physics "Enrico Fermi", Course LXXI, 11-23 July, 1977

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